

DERWENT-ACC-NO: 1990-331815

DERWENT-WEEK: 199808

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TITLE: Poly (4-methyl-1-pentene) surface-roughened  
release film  
- prepd. by embossing uniaxially drawn film,  
useful for  
multilayer printed circuit boards mfr.

PATENT-ASSIGNEE: MITSUI PETROCHEM IND CO LTD[MITC]

PRIORITY-DATA: 1989JP-0057765 (March 13, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
JP 02238911 A	September 21, 1990	N/A
007 N/A		
JP 2701924 B2	January 21, 1998	N/A
005 B29C 043/32		

APPLICATION-DATA:

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APPL-DATE		
JP 02238911A	N/A	1989JP-0057765
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ABSTRACTED-PUB-NO: JP 02238911A

BASIC-ABSTRACT:

Release film is prepd. by embossing a uniaxially drawn poly(4-methyl-1-pentene)  
film so that both surfaces of the film are roughened.

Prodn. of the release film involves uniaxially drawing the melt-extruded film,  
and surface-roughening with emboss rolls under high temp. pressure

conditions.

Pref. release film has an average surface roughness of 0.5-10 micron.

The

embossing is conducted at 100-220 deg.C, 50-200 kg/sq.mm. The drawing is

conducted at a draw ratio of 2.5-6.

USE/ADVANTAGE - The release film is used for prodn. of the outer layers, e.g.,

composed of a prepreg and a Cu foil, of multiply printed circuit boards. The

release film is placed on the prepreg overlayed on the Cu foil.

Then, the

laminate is sandwiched between hot plates and heat-pressed. The prepreg is

surface-roughened, This contributes to high bonding strength. This film,

having a high rigidity, is prevented from creasing, and the embossed pattern is

kept during the press moulding of the laminate.

CHOSEN-DRAWING: Dwg.0/4

TITLE-TERMS: POLY METHYL PENTENE SURFACE ROUGH RELEASE FILM

PREPARATION EMOSS

UNIAXIAL DRAW FILM USEFUL MULTILAYER PRINT CIRCUIT BOARD  
MANUFACTURE

DERWENT-CLASS: A17 A32 A85 L03

CPI-CODES: A04-G10; A11-C04C; A12-S06A; A12-W02; L03-H04E3;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0011 0229 0231 0269 2450 2453 2479 3226 2492 3240 2496  
2510 2516

2604 2628 3253 2661 3269 2726 2728 2740

Multipunch Codes: 014 03- 04- 041 046 308 395 415 435 437 443 447 450  
452 465

466 468 47& 477 494 496 50& 53& 541 542 55& 551 560 566 575 59& 597  
600 602 623

627 628 688 698 723

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-144003